



aluglass®

bautech

Engineering QUIET since 1973

VARIFLEX®

mobile acoustic
operable walls



Variflex® @ East London Convention Centre

Introduction

What makes the Variflex[®] system different?

Acoustic overview

Acoustic selection table

Types of VX & selection table

Types of elements

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Variflex[®] Glass

Introduction



- Variflex® permits flexible room layouts.
- Allows complete privacy in rooms.
- Has no floor track- only over head track.
- Elements park neatly to one side or into a niche.
- Technical backup and international design standards.
- Assistance at feasibility and design stage.



Variflex® @ Nedbank

What makes the Variflex® system different?

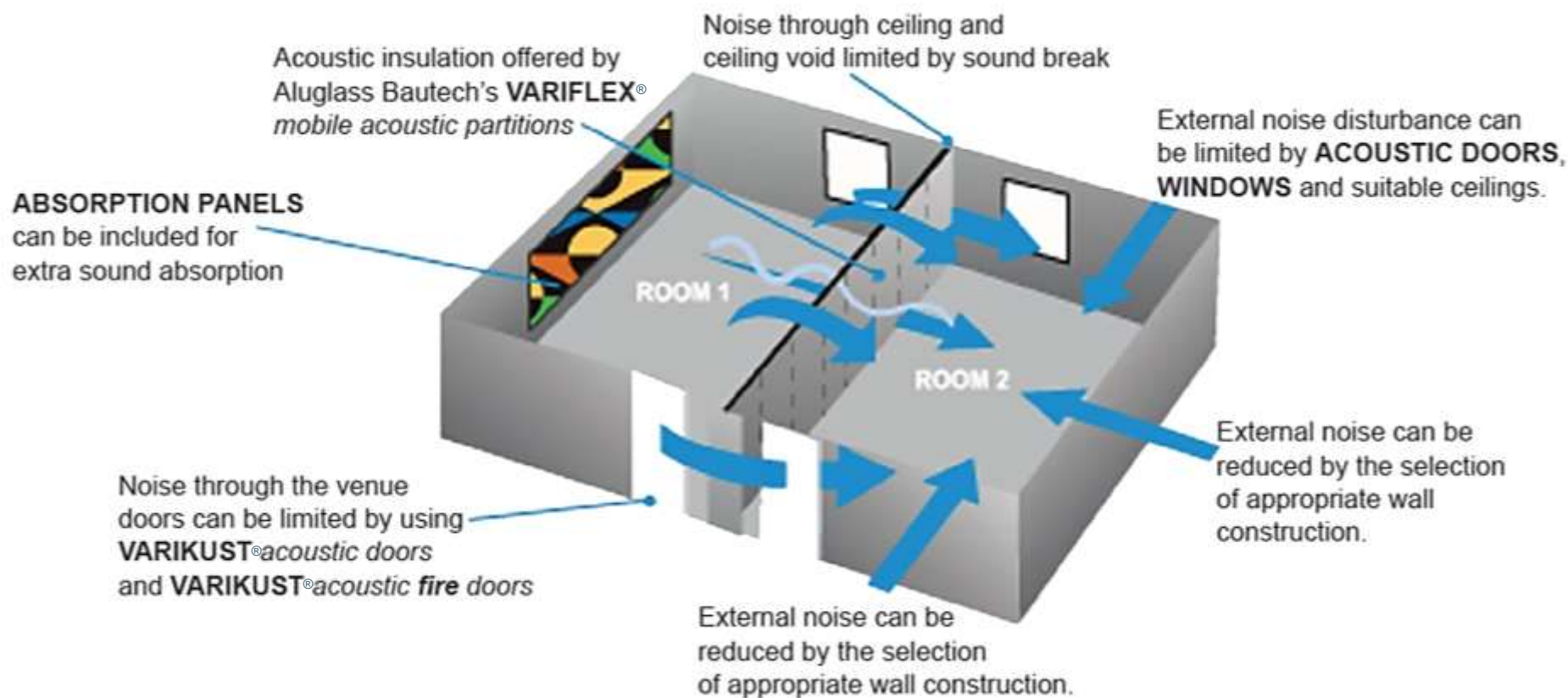


- German Design modified to be more robust for the South-African Market
- Face Panels are acoustically decoupled from frame which adds to acoustic performance & easily enables possible future aesthetic modifications
- Magnetic Panel Intergration adding 50nm horizontal force
- Acoustic rating from Dnt = 40dB to 55dB (*updated acoustic sound level testing method is an in-situ measurement of the Standardised Level Difference according to ISO 162283-1 2014, analysed according to weighted Standardised Level Difference, DnTw, according to ISO 717-1.*)
- Highest Measurement of 55dB
- Passdoors have a unique sealing mechanism with a more sleek design.
- Intergrated Corner blocks which reduce possible flanking paths increasing performance by up to 2 decibels



Variflex® @ Accenture

Acoustic overview



Acoustic selection table



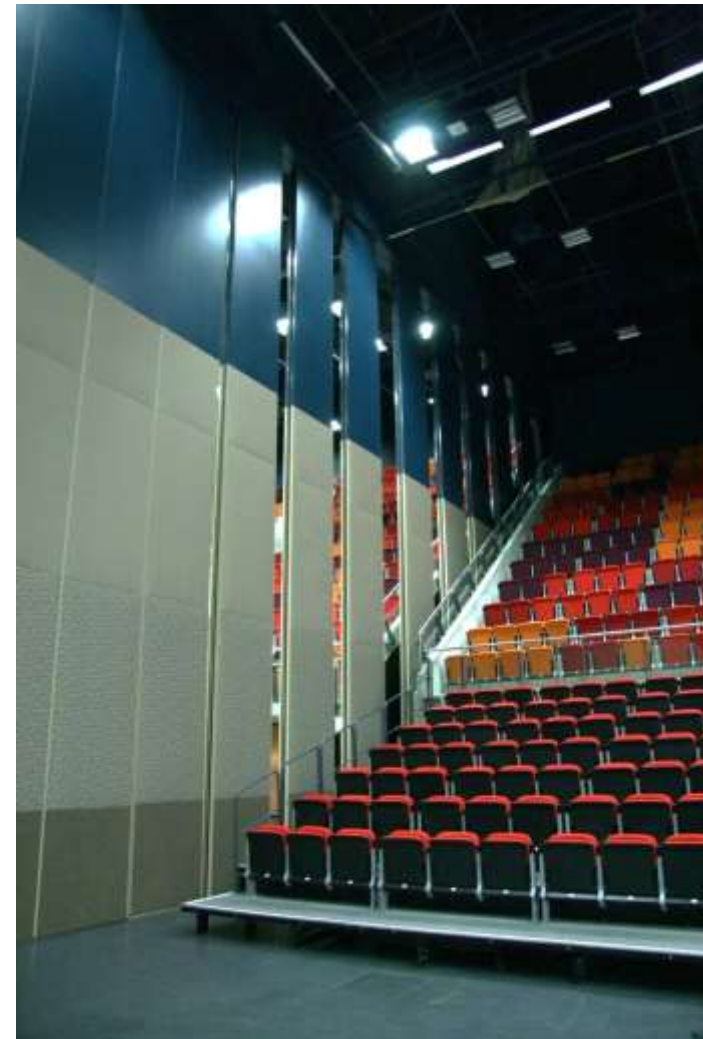
Room 1		<i>louder</i>				
Room 2	Activity	Meeting 50dB (BN) 75dB (Peak)	Discussion 50dB (BN) 80dB (Peak)	Conference 50dB (BN) 85dB (Peak)	Audiovisual (AV) presentation 50dB (BN) 90dB (Peak)	Studio Recording 35dB (BN) 85dB (Peak)
<i>louder</i>	Meeting	40dB	45dB	49dB	≥ 49dB	52dB
	Discussion	45dB	45dB	49dB	≥ 49dB	52dB
	Conference	49dB	49dB	49dB	≥ 49dB	n/a
	AV presentation	≥ 49dB	≥ 49dB	≥ 49dB	45dB	55dB
	Studio recording	52dB	52dB	n/a	55dB	55dB

Types of VX & selection

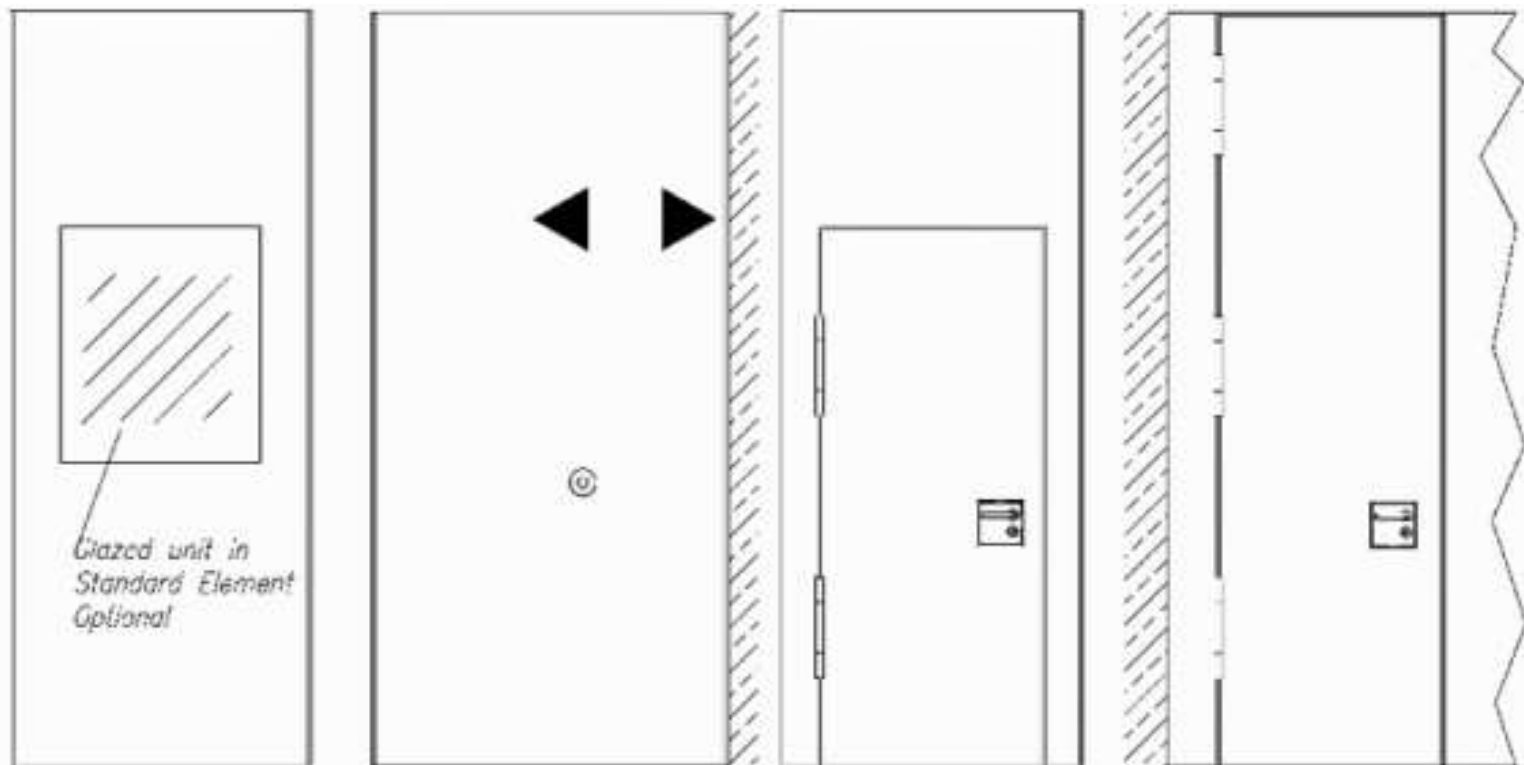


- VX83 – 83mm thick
- VX110 – 110mm thick
- VX164 – 164mm thick

System	Acoustic rating	Max height (mm)
VX83	40dB	4800
	45dB	4800
	49dB	4200
VX110	47dB	7000
	50dB	7000
	52dB	6000
VX164	52dB	12000
	55dB	10000



Types of elements



Standard Element



Telescopic Element

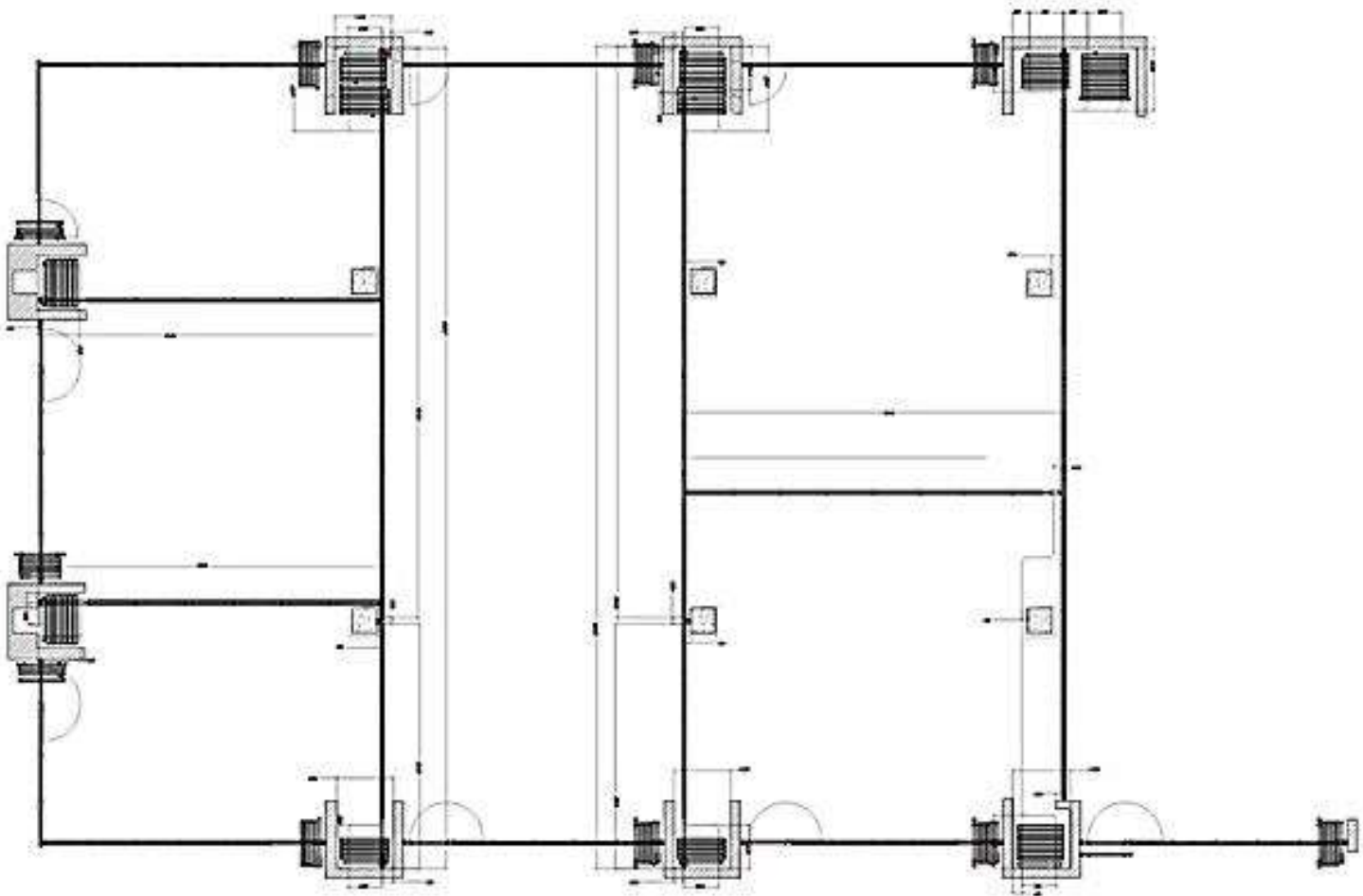


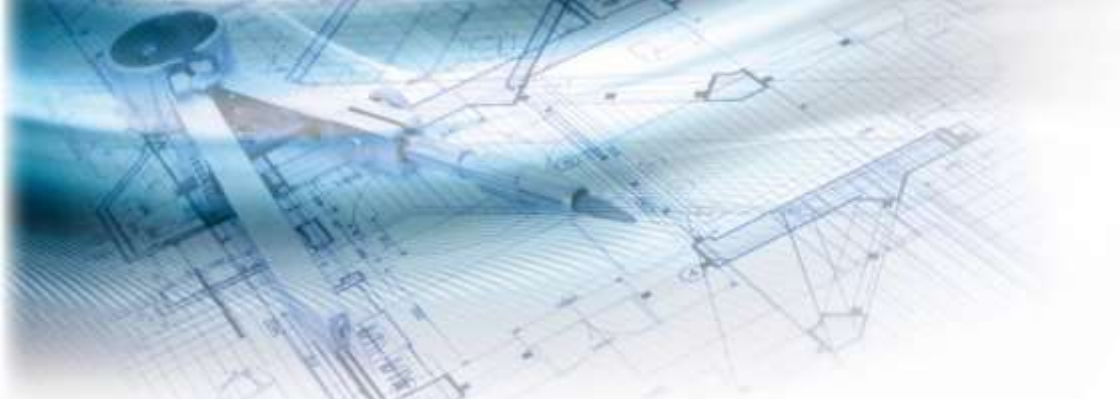
DT-Pass door within Element



Fixed door

Layout example

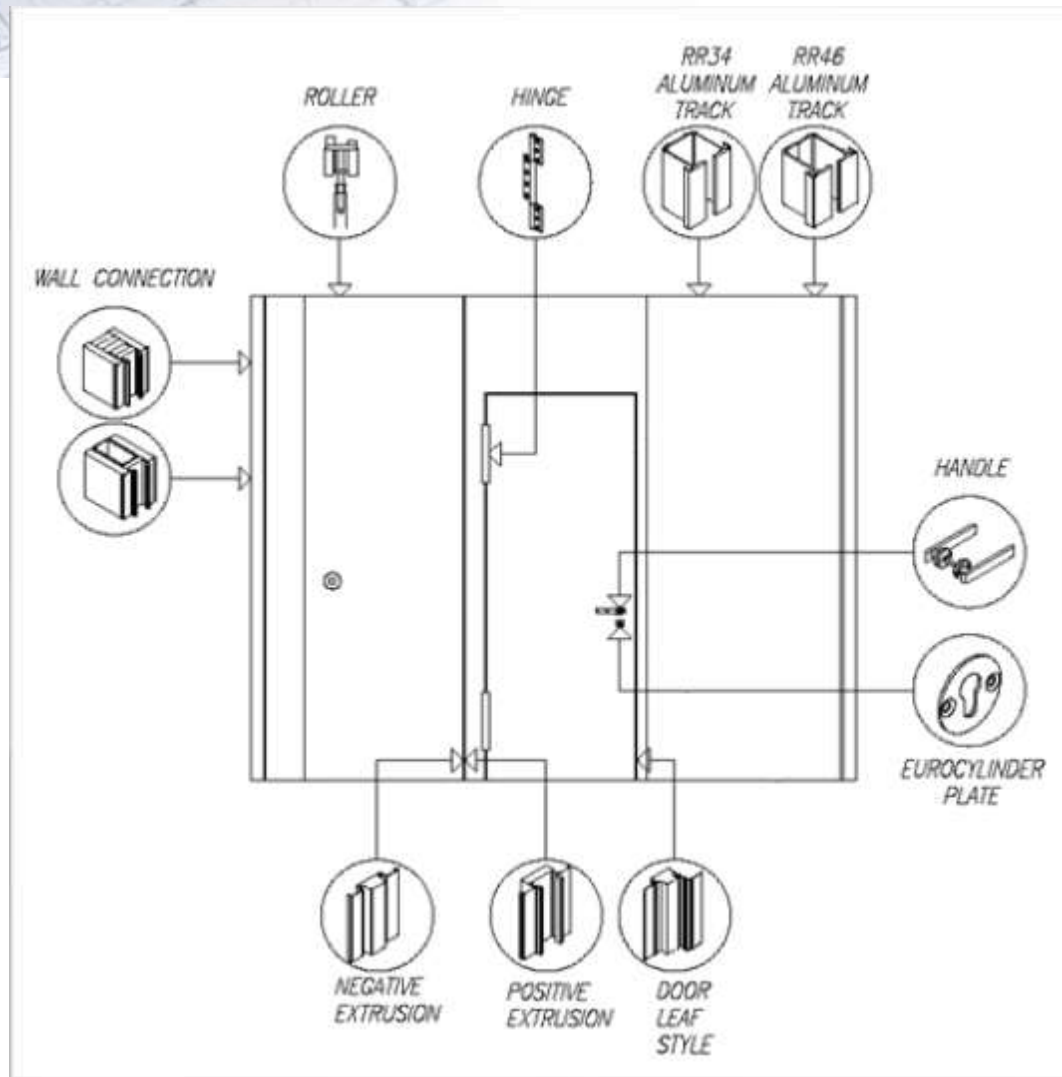




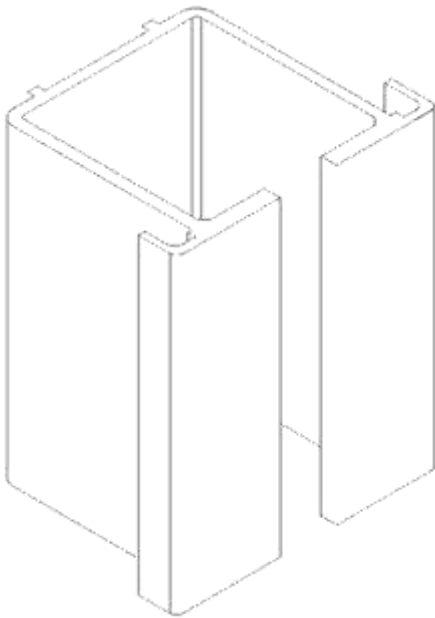
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Hardware & components examples

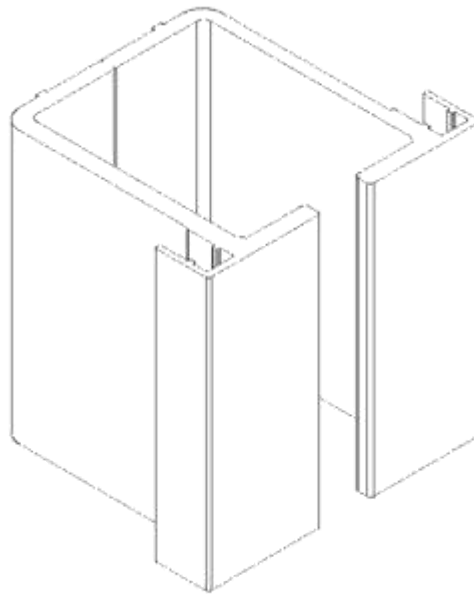


Types of tracks



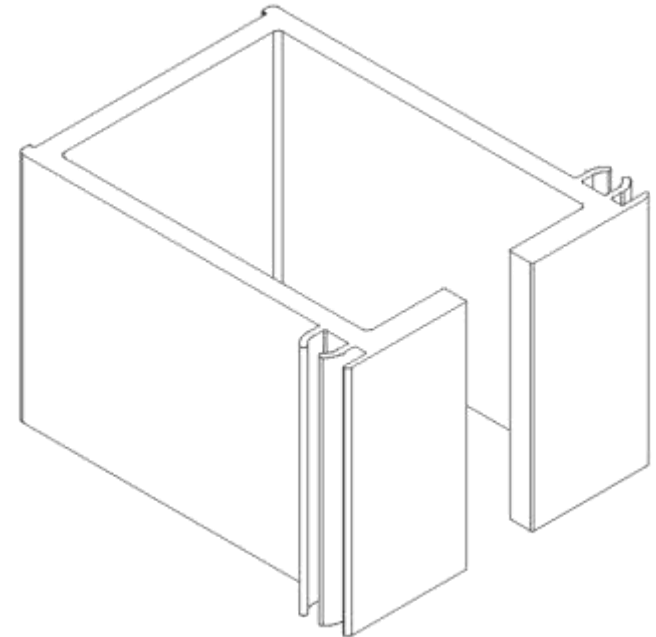
RR34

- single suspension
- heights under 3m



RR46

- double suspension.
- heights over 3m



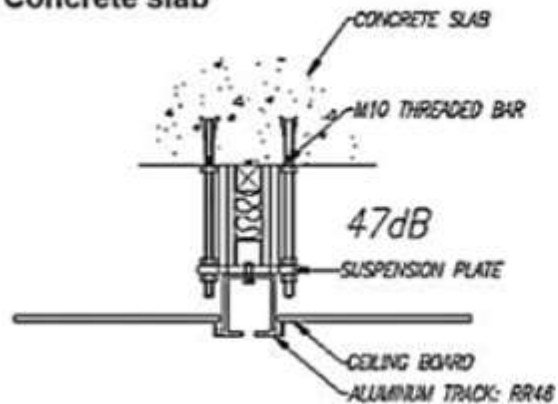
RR80

- heights over 6m

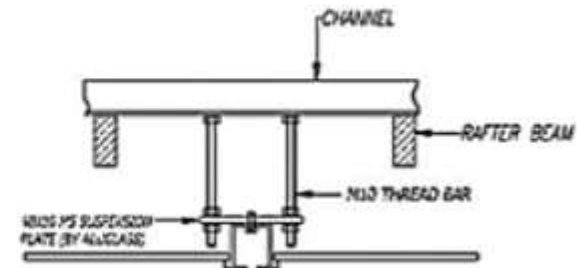
Suspension details



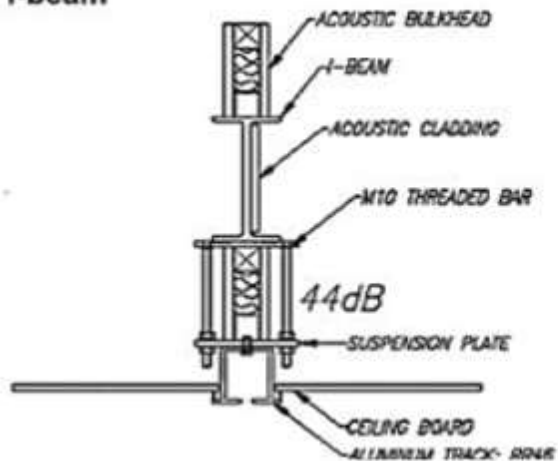
Concrete slab



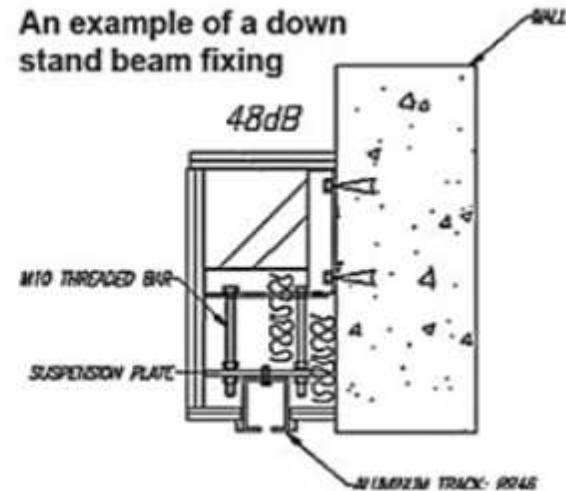
Roof trusses

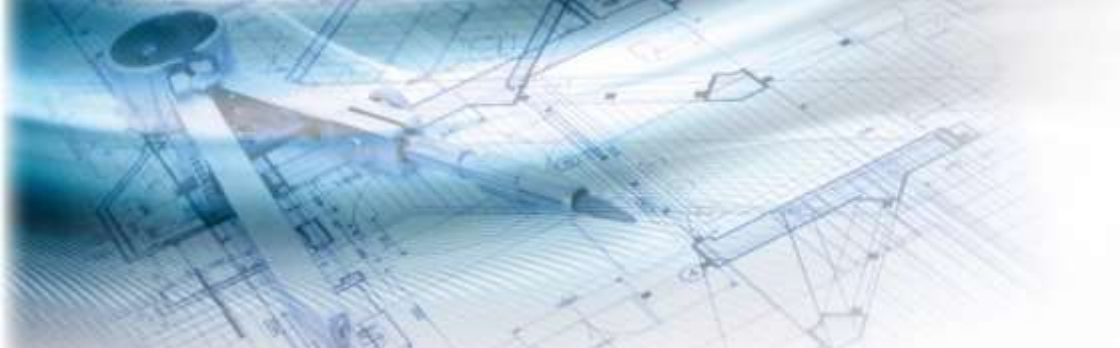


I-beam



An example of a down stand beam fixing





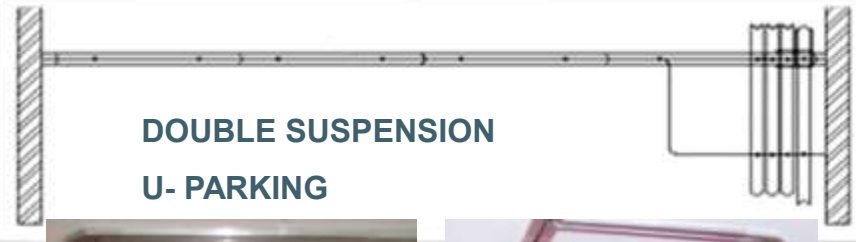
SINGLE SUSPENISON

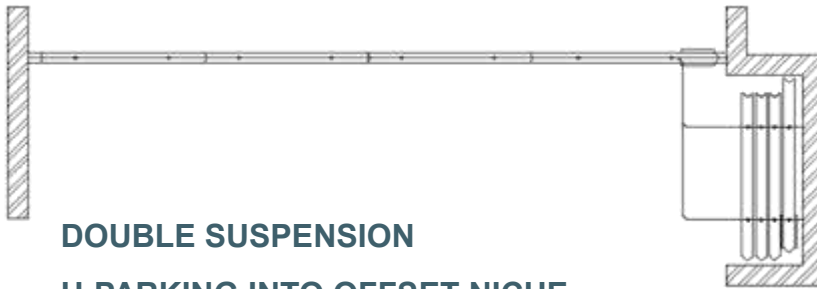
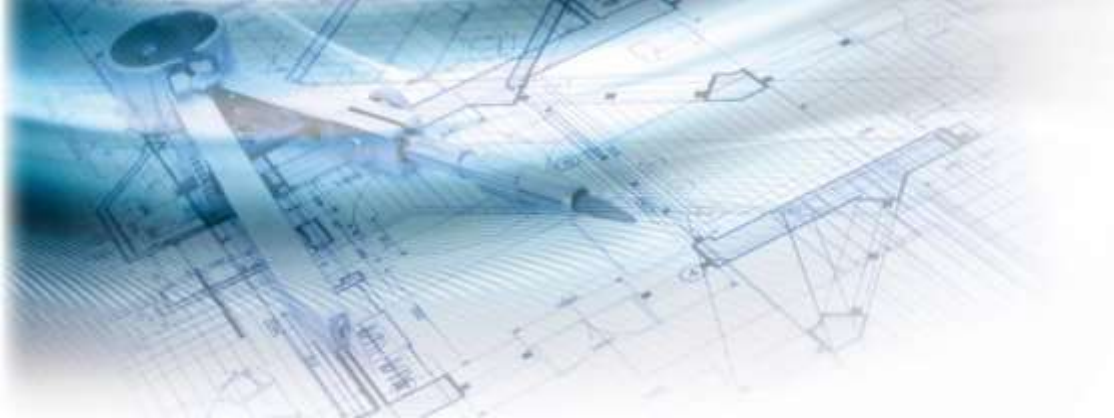
PARKING CROSSWISE UNDERTRACK



DOUBLE SUSPENSION

U- PARKING

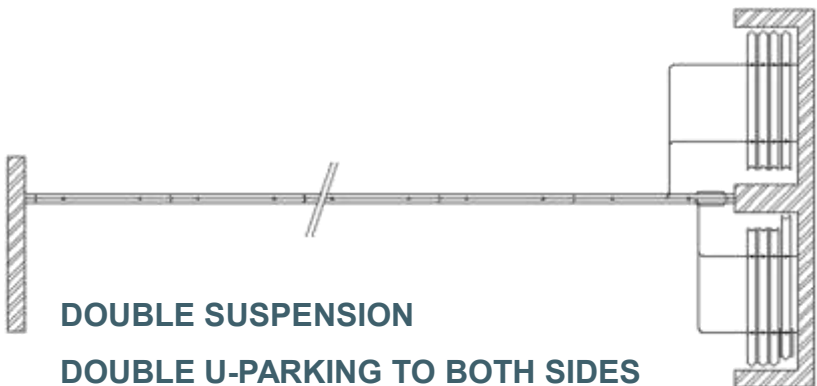




**DOUBLE SUSPENSION
U-PARKING INTO OFFSET NICHE**



**DOUBLE SUSPENSION
U-PARKING TO ONE SIDE**



**DOUBLE SUSPENSION
DOUBLE U-PARKING TO BOTH SIDES**



**DOUBLE SUSPENSION
DOUBLE U-PARKING INTO OFFSET NICHE
TYPE 2**

Finishes



- Fabric - any upholstery weight with a min. width of 1400mm
- Wallpaper - with a min. width of 1400mm wide
- Natural wood veneers include:
 - Beech, Cherry, Etimoe, Kiaat, Mahogany, Maple, Oak, Rosewood, Walnut, Wenge (stains, waxes and oils can also be applied)
- Integrated magnetic white boards or pin boards
- Integrated absorption panels to assist with sound absorption

- Laminate surfaces
- Velcromat
- Glass
- MDF - sealed or painted
- Marine ply - external applications

Applications



- Conference facilities
- Auditoria
- Training rooms
- Education facilities:
 - schools,
 - universities,
 - colleges
- Boardrooms
- Offices
- Hospitals
- Laboratories
- Places of worship
- Community facilities

Projects to be proud of



Variflex® @ Cape Town Convention Centre



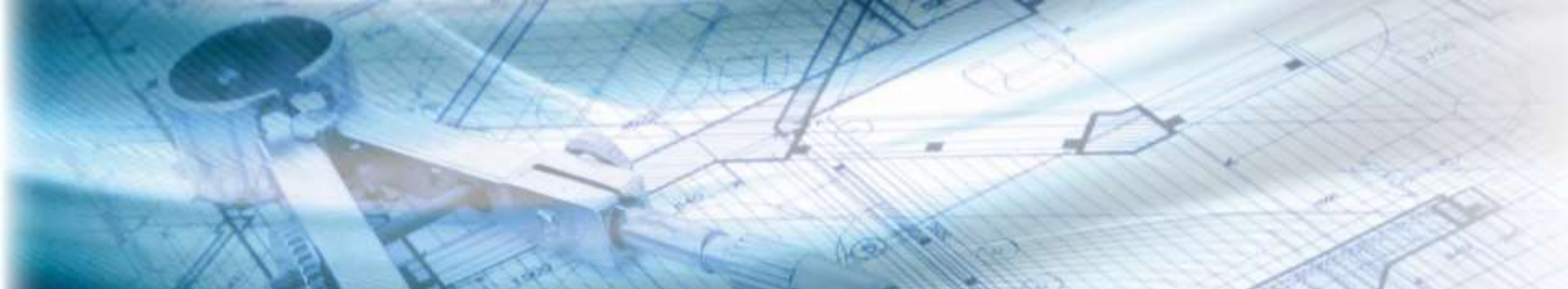
Variflex® Glass @ Am Weinberg Namibia



Variflex® @ DIRCO



12m high Variflex® @ Cape Town Film Studios



Variflex® @ The Capital On The Park



Variflex® @ Tharisa Minerals



Variflex® @ Merck



Variflex® @ Allen and Overy Sandton



Variflex® @ CSIR Pretoria



12m high Variflex® @ Cape Town Film Studios

Other product projects
be proud of...



Varikust® @ Sky Rink Studios Johannesburg



Flush Glazed Curtain Walls @ Nelson Mandela Square



Absorption Panels, GF Serene and Varikust doors @ Deutsche Bank



Frameless Glass Entrance Doors and Canopy Glass @ Nelson Mandela Square



GF Serene & Varikust® @ Allen & Overy Sandton



Glassflex® windows @ Sandton Sun



Varikust® FIRE Doors @ University of Johannesburg



Showerflex® @ Windhoek Country Club Namibia